

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the Application. Deletions are ~~striketrough~~ and additions are underlined.

1. (Currently amended) A purified extract isolated from Cucurbitaceae family plant prepared by the steps consisting of:

adding about ~~5 to 15~~ 1 to 25 fold volume of ~~distilled water~~ a polar protic solvent to dried material of Curcubitaceae family plant,

heating the polar protic solvent to a temperature in the range from 20° C to 100° C for a time period in the range from 30 min to 24 hours,

extracting the plant to obtain plant extract,

~~filtrating~~ filtering and drying the extract with reduced pressure to obtain ~~hot-water~~ polar protic solvent soluble extract of the plant ~~at 1st step~~;

suspending said ~~hot-water~~ polar protic solvent soluble extract with water and subjecting fractionation with hexane, chloroform, ethylacetate, butanol solvent with increasing order of polarity to obtain respective organic solvent-soluble fraction ~~at 2nd step~~;

subjecting said chloroform-soluble fraction to silica gel column chromatography with a solvent mixture ~~mixed with~~ of hexane: chloroform: methanol (16:15:1) to ~~afford~~ obtain 11 sub-fractions ~~at 3rd step~~;

subjecting 9th faction among said sub-fractions to repetitive silica gel column chromatography with a solvent mixture ~~mixed with~~ of chloroform: methanol and HPLC to obtain ~~inventive~~ purified extract designated to “cmc-9” having ~~potent anti-obesity and anti-adipogenic activity and showing~~ TLC spectrum as shown in Fig. 18-12.

2. (Currently amended) A pharmaceutical composition comprising the extract of Cucurbitaceae family plant or the purified extract ~~as set forth in of~~ claim 1 ~~having anti-adipogenic and anti-obesity activity~~ as an active ingredient in an effective amount to treat and prevent obesity and adipogenesis-involved diseases.
3. (Previously presented) The pharmaceutical composition of claim 2, wherein said Cucurbitaceae family plant is selected from the group consisting of pumpkin (*Cucurbita moschata* DUCH), water-melon (*Citrullus vulgaris* SCHRAD), sponge gourd (*Luffa cylindrical* L. ROEM), gourd (*Lagenaria siceraria* STANDL. var. *depressa* HERA), and cucumber (*Cucumis sativus* L).
4. (Previously presented) The pharmaceutical composition of claim 3, wherein said Cucurbitaceae family plant is selected from pumpkin (*Cucurbita moschata* DUCH), water melon (*Citrullus vulgaris* SCHRAD), and sponge gourd (*Luffa cylindrical* L. ROEM).
5. (Previously presented) The pharmaceutical composition of claim 2, wherein said extract of Cucurbitaceae family plant is extracted from the stem or leaf thereof.
6. (Previously presented) The pharmaceutical composition of claim 2, wherein said obesity and adipogenesis-involved diseases is selected from the group consisting of obesity, type II diabetes, steatosis, hyperlipemia, cardiovascular disease, and arteriosclerosis.
7. (Previously presented) The pharmaceutical composition of claim 2, wherein said extract is selected from the group consisting of crude extract and non-polar solvent soluble extract.
8. (Previously presented) The pharmaceutical composition of claim 2, wherein said extract is hot-water soluble extract.
9. (Previously presented) The pharmaceutical composition of claim 7, wherein said non-polar solvent is selected from the group consisting of hexane, chloroform, dichloromethane, and ethylacetate.

10. (Previously presented) The pharmaceutical composition of claim 9, wherein said non-polar solvent is chloroform.

11. (Previously presented) The pharmaceutical composition of claims 2, wherein the pharmaceutical composition contains about 0.02 ~ 90% by weight of the extract based on the total weight of the pharmaceutical composition.

12. (Currently amended) A health care food comprising a crude extract, non-polar solvent soluble extract of Cucurbitaceae family plant or cmc-9 extract ~~as set forth in~~ of claim 1, together with a sitologically acceptable additive for the prevention and alleviation of obesity and adipogenesis-involved diseases.

13. (Previously presented) The health care food of claim 12, wherein said food is health care beverage.

14. (New) The purified extract isolated from Cucurbitaceae family plant of Claim 1, where the polar protic solvent is selected from the group consisting of distilled water, lower alcohol, methanol, ethanol, butanol and mixtures thereof.